



University of Bahrain

CE -- CIT -- UOB

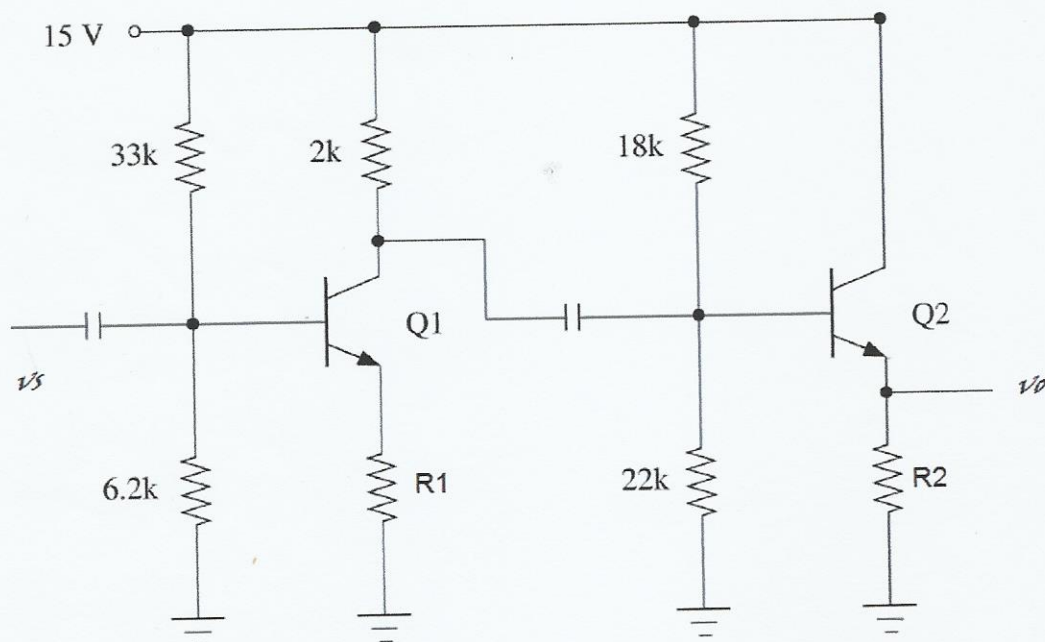
TEST 2 (10 August 2015) ITCE263/EEG261: Electronics 1

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**Q1.** [50 marks]

In the following amplifier:

- Find  $R_1$  and  $R_2$  for  $V_{CE1} = V_{CE2} = 7$  volt
- Draw equivalent circuit
- Find voltage gain
- Find  $R_{in}$
- Find  $R_{out}$



**Q2.** [30 marks]

Draw a common base amplifier and its equivalent circuit then derive its voltage gain

**Q3.** [20 marks]

List a table showing the main differences between common base CB, common emitter CE and common collector CC amplifiers.